



98103.00016

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: )  
John J. Coogan, Jr., et al. ) Examiner:  
Serial No.: 10/660,930 ) Group Art Unit: 1651  
Filed: September 12, 2003 ) Confirmation No. 7313  
For: MONOCHROMATIC FLUID TREATMENT SYSTEMS

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. § 1.56, the references listed on the attached form PTO-1449 are being brought to the attention of the Examiner for consideration in connection with the examination of the above-identified patent application.

The Information Disclosure Statement submitted herewith is being filed, to the best of applicants' knowledge, before the mailing date of a first Office Action on the merits pursuant to 37 C.F.R. §1.97(b)(3). The references listed include references cited in the search report of a related PCT application.

The references submitted with this Information Disclosure Statement include cited references in a communication from a foreign patent office in a counterpart foreign application of the parent application (Serial No. 09/805,610, filed March 13, 2001).



Serial No. 10/660,930

Attorney Docket: 98103.00016

The cited references listed on the enclosed PTO-1449 are not enclosed but were previously cited in the following patent application: Serial No. 09/805,610, filed March 13, 2001, and copies submitted therein. Copies of the cited references cited in the parent application will be provided upon the request of the Patent Office. 37 C.F.R. § 1.98 (d).

The filing of this Information Disclosure Statement shall not be construed to be a representation that a search has been conducted, nor shall it be construed as an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

It is respectfully requested that the Examiner return a copy of the attached form PTO-1449 with initials or other appropriate marks indicating consideration of the cited materials.

Respectfully submitted,

Date: February 9, 2004

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I hereby certify that the enclosed Information Disclosure Statement along with a PTO-1449 Form is being deposited with the United States Postal Service as first class mail, postage prepaid, addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on February 9, 2004.

Dated: February 9, 2004

  
Joan Simmons

HARTFORD: 608332.01

Form PTO-1449 (modified 2/91)	U.S. DEPT OF COMMERCE Patent and Trademark Office	Attorney Docket Number:  98103.00016	Serial No.:  09/660,930
<b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)		Applicants:	
		John J. Coogan, Jr., et al.	
		Filing date: 9/12/03	Group Art Unit: 1651

## U.S. PATENT DOCUMENTS

Examiner Initial	Patent number	Date	Inventor	Class	Sub class	Filing date if appropriate
	3,637,342	1/25/72	Veloz			
	3,987,306	10/19/76	Simpson			
	4,101,424	7/18/78	Schooley et al.			
	4,608,255	8/26/86	Kahn et al.			
	4,726,949	2/23/88	Miripol et al.			
	4,837,484	7/6/89	Eliasson et al.			
	4,866,282	9/12/89	Miripol et al.			
	4,952,812	8/28/90	Miripol et al.			
	5,030,200	7/9/91	Judy et al.			
	5,150,705	9/29/92	Stinson			
	5,194,740	3/16/93	Kogelschatz et al.			
	5,232,844	8/3/93	Horowitz et al.			
	5,290,221	3/1/94	Wolf, Jr. et al.			
	5,433,738	7/18/95	Stinson			
	5,446,289	8/29/95	Shodeen et al.			

## FOREIGN PATENT DOCUMENTS

Document number	Date	Country	Class	Sub class	Translation Yes No

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	J. C. G. Doery, et al., Induction of Aggregation of Human Blood Platelets by Ultraviolet Light: Action Spectrum and Structural Changes, October 1973, Vol. 42, No. 4, pp. 551-555.
	D. H. Pamphilon, et al., Applications of Ultraviolet Light in the Preparation of Platelet Concentrates, 1989, Vol. 29, No. 5, pp. 379-383.
	G. Andreu, et al., Ultraviolet Irradiation of Platelet Concentrates: Feasibility in Transfusion Practice, Vol. 30, No. 5, 1990, pp. 401-406.
	Gerard Olack, et al., Improved High-Performance Liquid Chromatographic Analysis of 8-Methoxypsoralen Monoadducts and Cross-Links in Polynucleotide, DNA, and Cellular Systems: Analysis of Split-Dose Protocols, 1993, Vol. 57, No. 6, pp. 941-949.
	Gasparro, et al., Research Note - The Excitation of 8-Methoxypsoralen With Visible Light: Reversed Phase HPLC Quantitation of Monoadducts and Cross-Links, 1993, Vol. 57, No. 6, pp. 1007-1010.
	Schmitt, et al., New Trends in Photobiology (Invited Review) - Psoralen -Protein Photochemistry - a Forgotten Field, 1995, pp. 101-107.
	Blundell, et al., A Prospective, Randomized Study of the Use of Platelet Concentrates Irradiated With Ultraviolet-B Light in Patients With Hematologic Malignancy, 1996, Vol. 36, No. 4, pp. 296-302.
	Chin, et al., Symposium-in-Print - Virucidal Treatment of Blood Protein Products with UVC Radiation, 1997, Vol. 65, No. 3, pp. 432-435.

Examiner:	Date Considered:
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP §609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.	

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**U.S. PATENT DOCUMENTS**

Examiner Initial	Patent number	Date	Inventor	Class	Sub class	Filing date if appropriate
	5,597,722	1/28/97	Chapman et al.			
	5,626,768	5/6/97	Ressler et al.			
	5,654,443	8/5/97	Wollowitz et al.			
	5,702,432	12/30/97	Chen et al.			
	5,709,991	1/20/98	Lin et al.			
	5,730,934	3/24/1998	Holbert			
	5,762,867	6/9/98	D'Silva			
	5,789,150	8/4/98	Margolis-Nunno et al.			
	5,798,238	8/25/98	Goodrich, Jr. et al.			
	5,834,784	10/10/98	Morgan et al.			
	5,843,374	12/1/1998	Sizer et al.			
	5,922,278	7/13/99	Chapman et al.			

**FOREIGN PATENT DOCUMENTS**

Document number	Date	Country	Class	Sub class	Translation Yes No

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

	Preuss, et al., Comparison of Two Different Methods for Inactivation of Viruses in Serum, Sept. 1977, Clinical and Diagnostic Laboratory Immunology, Vol. 4, No. 5, pp. 504-508.
	The New England Journal of Medicine, Leukocyte Reduction and Ultraviolet B Irradiation of Platelets to Prevent Alloimmunization and Refractoriness to Platelet Transfusions, December 25, 1997, Vol. 337, No. 26, pp. 1861-1869.
	Corash, Inactivation of Viruses, Bacteria, Protozoa, and Leukocytes in Platelet Concentrates: Current Research Perspectives, Copyright © 1999, Transfusion Medicine Reviews, Vol. 13, No. 1, pp. 18-30.
	MacDonald, et al., Infrequent Detection of TT Virus Infection in Intravenous Drug Users, Prostitutes, and Homosexual Men, March 1999, The Journal of Infectious Diseases, pp. 686-689.
	M.L.U. del Rosario, et al., Prevention of Graft-Versus-Host Disease by Induction of Immune Tolerance With Ultraviolet B-Irradiated Leukocytes in H-2 Disparate Bone Marrow Donor, May 15, 1999, Blood, Vol. 93, No. 10, pp. 3558-3564.
	Goodrich, The Use of Riboflavin for the Inactivation of Pathogens in Blood Products, 2000, Vox Sanguinis, Vol. 78, Supp. 2, pp. 211-215.
	Prince, et al., Strategies for Evaluation of Enveloped Virus Inactivation in Red Cell Concentrates Using Hypericin, 2000, Photochemistry and Photobiology, Vol. 72, No. 2, pp. 188-195.
	Azuma, et al. Comparison of Sensitivity to Ultraviolet B Irradiation Between Human Lymphocytes and Hematopoietic Stem Cells, October 1, 2000, Blood, Vol. 96, No. 7, pp. 2632-2634.

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	5,951,509	9/14/99	Morris			
	5,955,840	9/21/99	Arnold et al.			
	6,113,566	9/5/2000	Schiecher			
	6,171,549 B1	1/9/2001	Kent			
	6,171,777 B1	1/9/2001	Cook et al.			
	6,190,608 B1	2/20/2001	Laub et al.			
	6,190,609 B1	2/20/2001	Chapman et al.			
	6,194,821 B1	2/27/2001	Nakamura			

**FOREIGN PATENT DOCUMENTS**

Document number	Date	Country	Class	Sub class	Translation Yes      No

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

	Database CAPLUS on STN, AN 1999:711834. LOMAEV et al. 'Sealed Efficient Excilamps Excited by a Capacitive Discharge'. Technical Physics Letters. 1999, Vol. 25, No. 11, pages 858-859. See entire document.
	Database CAPLUS on STN, AN 2000:608262. SOSNIN et al. 'Capacitive Discharge Excilamps'. Proceedings of SPIE-The International Society for Optical Engineering. 2000, 3933 (Laser Applications in Microelectronic and Optoelectronic Manufacturing V), pages 425-431. See entire document.
	Database CAPLUS on STN, AN 1998:473216. ZHANG et al. 'Efficient XEI Excimer Ultraviolet Sources from a Dielectric Barrier Discharge'. Journal of Applied Physics. 1998, Vol. 84, No. 3, pages 1174-1178. See entire document.
	Database CAPLUS on STN, AN 1997:663032. FALKENSTEIN et al. 'The Development of a Silent Discharge-Driven XeBr Excimer UV Light Source'. Journal of Physics D: Applied Physics. 1997, Vol. 30, No. 19, pages 2704-2710. See entire document.
	PCT International Search Report, July 12, 2002.

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